



Ain Shams University  
Faculty of Engineering

# Social Network

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User Manual

Developed by

Mohamed Madboly Mohamed

Mahmoud Hamdy Abd El-Gawwad

Mahmoud Atef Abd El-Hamid

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## Contents:

- General Design
- Graphical Design
- User Guide or Manual (CLI Design)
- Using the software with Screenshots
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## General Design:

- Interactive command line interface that support both admin and users' functions

- Admin Roles:

- Add/Delete User
- Browse User Profile/Friends
- Full Control of the system

- User Roles:

- Add Friend
- Send friend requests
- Accept/Reject friend requests
- Create a post
- Like posts
- Browse user profile/friends
- Edit his/her profile
- Login/Logout
- Switch roles

- The ability to change from user mode to admin mode and vice versa

- Databases contain all information about users and used for social network analysis.

- Repository is created for each user to save his basic data and profile.

- Dat files are used to hold, save and load objects and data structures like xml files

## Graphical Design:



# User Guide (CLI Design):

## Structure to parse

---

```
<command> <mail> <additional_arguements>  
(must) (optional) (optional)
```

## Examples:

---

### Notes:

- "-" stands for command
- "=" stands for system interaction
- "()" stands for an update in the data

From our repo on GitHub: <https://github.com/SuperMoody/Social-Network>

```
- Register  
= please, register your info:  
Name: Mohamed Yehia  
Age: 23  
Mail: mohamedyehia@gmail.com  
Password: 1234  
  
- Login  
= please, write your e-mail and password:  
Mail: mohamedyehia@gmail.com  
Password: 1234  
  
- Logout  
(account is logged out and we are redirected to home page)  
  
- ViewProfile <mail>  
- ViewProfile mody_nokta@yahoo.com  
(screen is cleared and profile pops up)
```

```
- EditProfile
= please, enter your password first: 123456
= what do you want to change?
- age
= Enter the new age:
- 27
(profile is updated then pops up again)

- ViewRequests
= name: Mostafa Tarek
  mail: mostafatarek@gmail.com

  name: Ahmed Mahmoud
  mail: ahmedmahmoud@yahoo.com

- BrowseFriends
= name: Mostafa Tarek
  mail: mostafatarek@gmail.com

  name: Ahmed Mahmoud
  mail: ahmedmahmoud@yahoo.com

- ViewPosts
  (all user's posts and his friends are printed)

- Add <mail> <name>
- Add mostafatarek@gmail.com Mostafa Tarek

- Accept <mai> <name>
- Accept mohamedyehia@gmail.com Mohamed Yehia

- Reject <mail> <name>
- Reject mohamedyehia@gmail.com Mohamed Yehia

- Post
= What's in your mind ?
- Know me no pain, no me know pain.
  (all users posts pops up with the new post and each post is drawn in a frame)

- Like <mail> <ID>
= Like mohamedyehia@gmail.com 5
  (post is liked and all posts are updated with the new likes)
```

- Switch <role>
- Switch Admin
- Switch User  
(switching roles automatically `logout` from any logged `in` user)
- home  
(screen is cleared and all posts of the user and his friends appear on screen)
- `help`  
(all system commands are printed on the screen)
- quit
- `exit`  
(software is closed)

## Using the software with screenshots:

1) opening the software:

```
C:\> C:\WINDOWS\system32\cmd.exe

Welcome our guest ^_^

$
```

2) We are going to register 3 users in the system using the command Register

Mostafa Tarek

Mohamed Yehia

Ahmed Mahmoud

```
C:\> C:\WINDOWS\system32\cmd.exe

Welcome our guest ^_^

$ Register

Please, register your info:
Name:
```

```
C:\> C:\WINDOWS\system32\cmd.exe

Welcome our guest ^_^

$ Register

Please, register your info:
Name: Mostafa Tarek
Age: 31
Mail: mostafatarek@gmail.com
Password: 123456
```



C:\WINDOWS\system32\cmd.exe

```
Data saved successfully
A subdirectory or file mostafatarek already exists.

$
```

\$ Register

```
Please, register your info:
Name: Mohamed Yehia
Age: 44
Mail: mohamedyehia@gmail.com
Password: 1234
```

\$ Register

```
Please, register your info:
Name: Ahmed Mahmoud
Age: 33
Mail: ahmedmahmoud@yahoo.com
Password: 12345
```

3) Now, we will login in Mohamed Yehia's account and add Mostafa Tarek as a friend

\$ Login

```
Please, write your mail and password
Mail:
```

\$ Login

```
Please, write your mail and password
Mail: mohamedyehia@gmail.com
Password: 1234
```

C:\WINDOWS\system32\cmd.exe

```
Logged in successfully

$
```

4) Now we will send a friend request to Mostafa Tarek and we will repeat the process of adding Mostafa Tarek using Ahmed Mahmoud

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
Logged in successfully
```

```
$ Add mostafatarek@gmail.com Mostafa Tarek
```

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
you sent a request to Mostafa Tarek
```

```
$
```

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
you sent a request to Mostafa Tarek
```

```
$ Logout
```

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
Logggged out successfully!
```

```
$
```

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
Logggged out successfully!
```

```
$ Login
```

```
Please, write your mail and password
```

```
Mail: ahmedmahmoud@yahoo.com
```

```
Password: 12345
```

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
Logged in successfully
```

```
$ Add mostafatarek@gmail.com Mostafa Tarek
```

```
C:\WINDOWS\system32\cmd.exe
you sent a request to Mostafa Tarek
$ logout
Invalid Command!
hint: if you are stuck, type help
$
```

5) we tried to log out, but we forgot writing the command correctly. so we got a message saying invalid command, let's type help to remember.

```
C:\WINDOWS\system32\cmd.exe
you sent a request to Mostafa Tarek
$ logout
Invalid Command!
hint: if you are stuck, type help
$ help
system commands are:
- Register
- Login
- Logout
- ViewProfile
- EditProfile
- BrowseFriends
- ViewRequests
- ViewPosts
- Add
- Accept
- Reject
- Post
- Like
- Switch
- help
- exit
- quit
$
```

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
Logged out successfully!
```

```
$
```

6) we got it right, now we log in Mostafa's account to see these updates.

```
$ Login
```

```
Please, write your mail and password
```

```
Mail: mostafatarek@gmail.com
```

```
Password: 12345
```

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
wrong mail or password, try again
```

```
$
```

7) ouch, we made a mistake here, we should have written number 6 in password

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
wrong mail or password, try again
```

```
$ Login
```

```
Please, write your mail and password
```

```
Mail: mostafatarek@gmail.com
```

```
Password: 123456
```

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
Logged in successfully
```

```
you have 2 new requests
```

```
$
```

8) yes, we got it right, but looks like there are new notifications, let's check our profile

C:\WINDOWS\system32\cmd.exe

```
Logged in successfully
you have 2 new requests

$ ViewProfile mostafatarek@gmail.com
```

C:\WINDOWS\system32\cmd.exe

```
=====
Mostafa Tarek
=====

(info)

|-----|
| Name: Mostafa Tarek |
| Age: 31             |
| Mail: mostafatarek@gmail.com |
|-----|

$
```

9) Let's check if there are any requests using the command ViewRequests

```
| Mail: mostafatarek@gmail.com |
|-----|

$ ViewRequests

(Requests)

name: Mohamed Yehia
mail: mohamedyehia@gmail.com

name: Ahmed Mahmoud
mail: ahmedmahmoud@yahoo.com

$
```

10) Let's accept both of them using the command Accept and check our friend list in each acceptance

```
$ ViewRequests
(Requests)
name: Mohamed Yehia
mail: mohamedyehia@gmail.com

name: Ahmed Mahmoud
mail: ahmedmahmoud@yahoo.com

$ Accept mohamedyehia@gmail.com Mohamed Yehia
You and Mohamed Yehia are now friends
$
```

```
You and Mohamed Yehia are now friends

$ BrowseFriends
(Friends)
name: Mohamed Yehia
mail: mohamedyehia@gmail.com
```

```
$ ViewRequests
(Requests)
name: Ahmed Mahmoud
mail: ahmedmahmoud@yahoo.com

$ Accept ahmedmahmoud@yahoo.com Ahmed Mahmoud
You and Ahmed Mahmoud are now friends
$
```

11) Let's make sure that everything is updated

```
You and Ahmed Mahmoud are now friends
```

```
$ ViewRequests
```

```
(Requests)
```

```
$ BrowseFriends
```

```
(Friends)
```

```
name: Mohamed Yehia
```

```
mail: mohamedyehia@gmail.com
```

```
name: Ahmed Mahmoud
```

```
mail: ahmedmahmoud@yahoo.com
```

```
$
```

12) Now let's go to home to post something, and we will check if they are going to like Mostafa's posts or not

```
mail: ahmedmahmoud@yahoo.com
```

```
$ home
```

```
C:\ C:\WINDOWS\system32\cmd.exe
```

```
$ Post
```

```
what's on you mind ?
```

```
$ Post
```

```
what's on you mind ?
```

```
I'm busy said the sea, I'm busy think of me, Making continents to be, I'm busy said the sea.
```

13) Each post appears in a special frame in home like this:

C:\WINDOWS\system32\cmd.exe

> Mostafa Tarek <

```
| I'm busy said the sea, I'm busy think of me,  
| Making continents to be, I'm busy said the sea
```

```
| 0 likes | ID: 1 |
```

\$

14) Let Mostafa Tarek wants to like his post, we use the like command

C:\WINDOWS\system32\cmd.exe

> Mostafa Tarek <

```
| I'm busy said the sea, I'm busy think of me,  
| Making continents to be, I'm busy said the sea
```

```
| 0 likes | ID: 1 |
```

\$ Like mostafatarek@gmail.com 1

- it's then updated and all posts are reprinted

C:\WINDOWS\system32\cmd.exe

> Mostafa Tarek <

```
| I'm busy said the sea, I'm busy think of me,  
| Making continents to be, I'm busy said the sea
```

```
| 1 likes | ID: 1 |
```

\$

15) Let's write a new post then log out and log in in Mohamed's account



C:\WINDOWS\system32\cmd.exe

```
> Mostafa Tarek <

| I'm busy said the sea, I'm busy think of me, |
| Making continents to be, I'm busy said the sea |
|
| 1 likes | ID: 1 |

$ Post

what's on you mind ?
I'm busy said the rain, When I fall it's not invain, Wait and you will see the grain, I'm busy said the rain.
```

C:\WINDOWS\system32\cmd.exe

```
> Mostafa Tarek <

| I'm busy said the sea, I'm busy think of me, |
| Making continents to be, I'm busy said the sea |
|
| 1 likes | ID: 1 |

> Mostafa Tarek <

| I'm busy said the rain, When I fall it's not |
| invain, Wait and you will see the grain, I'm busy |
| said the rain |
|
| 0 likes | ID: 2 |

$
```

C:\WINDOWS\system32\cmd.exe

```
Loggged out successfully!

$ Login

Please, write your mail and password
Mail: mohamedyehia@gmail.com
Password: 1234
```

C:\WINDOWS\system32\cmd.exe

```
Logged in successfully

$ home
```

C:\WINDOWS\system32\cmd.exe

> Mostafa Tarek <

I'm busy said the sea, I'm busy think of me,  
Making continents to be, I'm busy said the sea

1 likes | ID: 1 |

> Mostafa Tarek <

I'm busy said the rain, When I fall it's not  
invain, Wait and you will see the grain, I'm busy  
said the rain

0 likes | ID: 2 |

\$

\$ Post

what's on you mind ?

I'm busy said the air, Blowing here and blowing there, Up and down and everywhere, I'm busy said the air.

> Mostafa Tarek <

I'm busy said the sea, I'm busy think of me,  
Making continents to be, I'm busy said the sea

1 likes | ID: 1 |

> Mostafa Tarek <

I'm busy said the rain, When I fall it's not  
invain, Wait and you will see the grain, I'm busy  
said the rain

0 likes | ID: 2 |

> Mohamed Yehia <

I'm busy said the air, Blowing here and blowing  
there, Up and down and everywhere, I'm busy said  
the air

0 likes | ID: 3 |

16) Mohamed Yehia likes Mostafa's Posts and will send a request to Ahmed Mahmoud

```
|  
| 0 likes | ID: 3 |  
|  
$ Like mostafatarek@gmail.com 1
```

```
> Mostafa Tarek <  
| I'm busy said the sea, I'm busy think of me,  
| Making continents to be, I'm busy said the sea  
|  
| 2 likes | ID: 1 |  
|  
> Mostafa Tarek <  
| I'm busy said the rain, When I fall it's not  
| invain, Wait and you will see the grain, I'm busy  
| said the rain  
|  
| 0 likes | ID: 2 |  
|  
> Mohamed Yehia <  
| I'm busy said the air, Blowing here and blowing  
| there, Up and down and everywhere, I'm busy said  
| the air  
|  
| 0 likes | ID: 3 |  
|  
$ Like mostafatarek@gmail.com 2
```

```
> Mostafa Tarek <

| I'm busy said the sea, I'm busy think of me,
| Making continents to be, I'm busy said the sea
|
| 2 likes | ID: 1 |

> Mostafa Tarek <

| I'm busy said the rain, When I fall it's not
| invain, Wait and you will see the grain, I'm busy
| said the rain
|
| 1 likes | ID: 2 |

> Mohamed Yehia <

| I'm busy said the air, Blowing here and blowing
| there, Up and down and everywhere, I'm busy said
| the air
|
| 0 likes | ID: 3 |

$
```

C:\WINDOWS\system32\cmd.exe

```
you sent a request to Ahmed Mahmoud
$ Logout
```

C:\WINDOWS\system32\cmd.exe

```
Logggged successfully!
$ Login

Please, write your mail and password
Mail: ahmedmahmoud@yahoo.com
Password: 12345

Logged in successfully
you have 1 new requests
$ ViewProfile ahmedmahmoud@yahoo.com
```

17) Now let's view the request and reject it

C:\WINDOWS\system32\cmd.exe

```
=====
Ahmed Mahmoud
=====

(info)

| Name: Ahmed Mahmoud
| Age: 33
| Mail: ahmedmahmoud@yahoo.com
|

$ ViewRequests

(Requests)

name: Mohamed Yehia
mail: mohamedyehia@gmail.com

$ Reject mohamedyehia@gmail.com Mohamed Yehia
```

```
$ ViewRequests

(Requests)

name: Mohamed Yehia
mail: mohamedyehia@gmail.com

$ Reject mohamedyehia@gmail.com Mohamed Yehia

$ ViewRequests

(Requests)

$
```

18) Let's change info in the profile, like the age from 33 to 30 only.

```
$ EditProfile  
please, enter your password first:
```

```
$ EditProfile  
please, enter your password first: 12345  
what you want to change:
```

```
$ EditProfile  
please, enter your password first: 12345  
what you want to change: age  
Enter the newage:  
30
```

cmd C:\WINDOWS\system32\cmd.exe

```
=====
Ahmed Mahmoud
=====

(info)

|-----|
| Name: Ahmed Mahmoud |
| Age: 30              |
| Mail: ahmedmahmoud@yahoo.com |
|-----|

$ ViewPosts
```

19) wow, magic! Now let's view posts from profile rather than going to home:

```
$ ViewPosts
```

```
> Mostafa Tarek <
```

```
| I'm busy said the sea, I'm busy think of me,  
| Making continents to be, I'm busy said the sea  
|  
| 2 likes | ID: 1 |
```

```
> Mostafa Tarek <
```

```
| I'm busy said the rain, When I fall it's not  
| invain, Wait and you will see the grain, I'm busy  
| said the rain  
|  
| 1 likes | ID: 2 |
```

```
$
```

- Notice the absence of Mohamed Yehia's post, because he is not a friend

20) Let's return to home and switch between admin mode and user mode

```
C:\WINDOWS\system32\cmd.exe
```

```
> Mostafa Tarek <
```

```
| I'm busy said the sea, I'm busy think of me,  
| Making continents to be, I'm busy said the sea  
|  
| 2 likes | ID: 1 |
```

```
> Mostafa Tarek <
```

```
| I'm busy said the rain, When I fall it's not  
| invain, Wait and you will see the grain, I'm busy  
| said the rain  
|  
| 1 likes | ID: 2 |
```

```
$ Switch Admin
```

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
you are now in Admin Mode
```

```
$
```

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
you are now in Admin Mode
```

```
$ Switch User
```

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
you are now in User Mode
```

```
$
```

- Switching to any mode will logout automatically

21) To exit the system, type “exit” or “quit”

```
C:\> C:\WINDOWS\system32\cmd.exe
```

```
you are now in User Mode
```

```
$ quit
```

```
Press any key to continue . . .
```



## Changes from the last submitted version:

- Post, and Like functions were not completed
- Team Integration was not completed
- User friendly software was not completed
- Add, Reject and View Requests were not completed